



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/053,707	01/24/2002	Teruhiko Kamigata	1614.1210	7916
21171 7590 12/19/2006 STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			EXAMINER DONAGHUE, LARRY D	
			ART UNIT 2154	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		12/19/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/053,707

Applicant(s)

KAMIGATA ET AL.

Examiner

Larry D. Donaghue

Art Unit

2154

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 September 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

Art Unit: 2154

1. Claims 1-13 are presented for examination.
2. Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.
3. The following rejection is maintained.
4. Claim 13 is rejected under 35 U.S.C. 102(a) as being anticipated by Miyake et al. (EP 1,089,168).

Miyake et al. taught arranging, via computer, variable-length instructions to be executed in an order in a logical instruction slot; and verifying an arrangement of the variable-length instructions (para. 67-69, figure 9).

In response to applicant argument of the rejection of 13, applicant fails to set forth the difference, merely alleges that the teaching of Miyake et al. is not the claimed invention.

5. New grounds of rejection.
6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

7. Claims 1-13 rejected under 35 U.S.C. 102(a) as being anticipated by Applicant admission of prior art, (AAPA) pages 1-11 and figures 1-9.

AAPA taught the invention as claimed including identifying a classification of a functional unit which can execute a basic instruction ; determining whether said basic instruction can be assigned to a logical instruction slot through checking a relationship between said classification of said functional unit and said logical instruction slot (page 10, lines 6-23) : and assigning, to an instruction slot, said basic instruction determined to be assignable to said logical instruction slot (page 8, lines 30).

As to claim 2, AAPA taught that identifying is divided into identifying an instruction category of a basic instruction, and identifying a classification of a functional unit which can execute said instruction category (page 7, lines 6-36) .

As to claim 3, AAPA taught that further comprising prior to said assigning, checking a relationship between said basic instruction that can be assigned to said logical instruction slot and other basic instructions to be assigned to other logical instruction slots (Page 8, lines 31-37).

As to claim 4, AAPA taught that prior to said assigning, for checking a relationship between said basic instruction that can be assigned to said logical instruction slot and other basic instructions to be assigned to other logical instruction slots (Page 8, lines 31-37).

As to claim 5, AAPA taught that identifying said logical instruction slot having a lowest numeral determined to be assignable (see figure 3 note 2 and 3, clearly showing the basic instructions are placed in the slot having the lowest numeral).

Art Unit: 2154

As to claim 6, AAPA taught that assigning includes identifying said logical instruction slot having a lowest numeral determined to be assignable (see figure 3, note time 2 and 3, clearly showing the basic instruction are placed in the slot having the lowest numeral).

As to claim 7, AAPA taught that identifying, determining, checking and assigning are repeated for all instruction slots (page 9, lines 1-12).

As to claim 8, AAPA taught that identifying, determining, checking and assigning are repeated for all instruction slots (page 9, lines 1-12).

Claims 9-12 are rejected for the same rational as claims 1-8, above.

As to claim 13, A method for aiding instruction processing, comprising arranging, via computer, variable-length instructions to be executed in an order in a logical instruction slot; and verifying an arrangement of the variable-length instructions (AAPA suggest the application of the claims to variable-length instructions (page 10, lines 27-35).

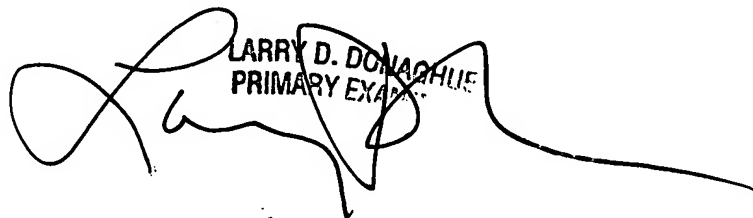
8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure..

Berenbaum et al. 7,096,343

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Larry D. Donaghue whose telephone number is 571-272-3962. The examiner can normally be reached on M-F 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



LARRY D. DONAGHUE
PRIMARY EXAMINER